Sandra Irmisch

List of Publications by Year
in descending order

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17	887	623699 14	888047 17
papers	citations	h-index	g-index

17	17	17	1207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Herbivoreâ€induced volatile emission in black poplar: regulation and role in attracting herbivore enemies. Plant, Cell and Environment, 2014, 37, 1909-1923.	5.7	120
2	Herbivoreâ€induced poplar cytochrome P450 enzymes of the <scp>CYP</scp>71 family convert aldoximes to nitriles which repel a generalist caterpillar. Plant Journal, 2014, 80, 1095-1107.	5.7	105
3	Characterization of Biosynthetic Pathways for the Production of the Volatile Homoterpenes DMNT and TMTT in Zea mays. Plant Cell, 2016, 28, 2651-2665.	6.6	105
4	Two Herbivore-Induced Cytochrome P450 Enzymes CYP79D6 and CYP79D7 Catalyze the Formation of Volatile Aldoximes Involved in Poplar Defense Â. Plant Cell, 2013, 25, 4737-4754.	6.6	104
5	Terpene synthases and their contribution to herbivore-induced volatile emission in western balsam poplar (Populus trichocarpa). BMC Plant Biology, 2014, 14, 270.	3.6	86
6	Four terpene synthases produce major compounds of the gypsy moth feeding-induced volatile blend of Populus trichocarpa. Phytochemistry, 2011, 72, 897-908.	2.9	77
7	Novel family of terpene synthases evolved from trans -isoprenyl diphosphate synthases in a flea beetle. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2922-2927.	7.1	72
8	Discovery of UDP-Glycosyltransferases and BAHD-Acyltransferases Involved in the Biosynthesis of the Antidiabetic Plant Metabolite Montbretin A. Plant Cell, 2018, 30, 1864-1886.	6.6	41
9	Flavonol Biosynthesis Genes and Their Use in Engineering the Plant Antidiabetic Metabolite Montbretin A. Plant Physiology, 2019, 180, 1277-1290.	4.8	39
10	One amino acid makes the difference: the formation of ent-kaurene and 16Î±-hydroxy-ent-kaurane by diterpene synthases in poplar. BMC Plant Biology, 2015, 15, 262.	3.6	30
11	CYP79D enzymes contribute to jasmonic acid-induced formation of aldoximes and other nitrogenous volatiles in two Erythroxylum species. BMC Plant Biology, 2016, 16, 215.	3.6	27
12	Herbivore-induced volatile emission from old-growth black poplar trees under field conditions. Scientific Reports, 2019, 9, 7714.	3.3	21
13	Complete Biosynthesis of the Anti-Diabetic Plant Metabolite Montbretin A. Plant Physiology, 2020, 184, 97-109.	4.8	18
14	Identification and characterization of CYP79D6v4, a cytochrome P450 enzyme producing aldoximes in black poplar (Populus nigra). Plant Signaling and Behavior, 2013, 8, e27640.	2.4	16
15	The nitrilase PtNIT1 catabolizes herbivore-induced nitriles in Populus trichocarpa. BMC Plant Biology, 2018, 18, 251.	3.6	13
16	Biosynthesis of the antiâ€diabetic metabolite montbretin A: glucosylation of the central intermediate miniâ€MbA. Plant Journal, 2019, 100, 879-891.	5.7	11
17	4-Coumaroyl-CoA ligases in the biosynthesis of the anti-diabetic metabolite montbretin A. PLoS ONE, 2021, 16, e0257478.	2.5	2